

Specification Amendments

Please amend the paragraph on page 9, lines 5-22, as follows:

The present invention provides a method for enhancing the detection of minute quantities of an analyte or target molecule by amplifying the signal from a binding assay that utilizes a catalyst that is capable of generating an oxidant, e.g., a peroxide or singlet oxygen. This catalyst is generally associated with a support or surface such as a particle to form what is referred herein as a sensitizer particle. The method of the invention entails a first step of forming a sandwich of a first receptor bound to the sensitizer particle, an analyte or target, and a second receptor associated with multiple copies of a substrate. The substrate is attached to a support or surface such as a particle to form what is referred to herein as an acceptor particle. The analyte binds to the first and second receptor, drawing the catalyst and substrate in close proximity. When peroxide or singlet oxygen is generated, an oxidant cleavable linker is cleaved, releasing detectable product ~~multiple products~~. The product includes two binding sites and may be detected using any standard sandwich assay, which utilizes specific binding reagents to form a detectable ternary complex containing the product. In practicing this invention, it is preferred that one of the specific binding reagents be incapable of binding to substrate when it is bound to the acceptor particle which is required for homogenous assays. In addition, it is preferred that the catalyst generate singlet oxygen as the oxidant and that linkers that attach the substrate to the surface or support be singlet oxygen cleavable.